

Appendix 2 - FY 2013 Research Summary and Index, Revision 3

Administration - 771					
Project No.	Project Title	Total Funds	Federal Funds	Iowa DOT Contact	No. Years
	*Transportation Research Board	\$105,905	\$105,905	Knight	Annual
	DOT Library Support	\$127,000	\$101,600	Knight	Annual
	General Funds for Future Needs	\$3,000	\$2,400	Knight	Annual
Research Monitoring and Technical Support Total		\$235,905	\$209,905	--	--
Pooled Fund Studies - 776					
Project No.	Project Title	Total Funds	Federal Funds	Iowa DOT Contact	No. Years
TPF-5(413)	NCHRP	\$472,000	\$472,000	Knight	Annual
SPR-3(042)	Aurora Program	\$25,000	\$25,000	Greenfield	Annual
TPF-5(009)	SICOP (Computer-Based Training System on AI/RWIS)	\$0	\$0	A. Dunn	2+
TPF-5(065)	Traffic Control Device Consortium	\$20,000	\$20,000	Crouch	Annual
TPF-5(081)	Smart Work Zone Deployment Initiative	\$45,000	\$45,000	Sprengeler	Annual
TPF-5(099)	Evaluation of Low Cost Safety Improvements	\$30,000	\$30,000	Vortherms	Annual
TPF-5(100)	Deicer Scaling of Slag Cement Products	\$0	\$0	Hanson	1
TPF-5(117)	Development of Performance Properties of Ternary Mixes	\$0	\$0	Hanson	1
TPF-5(139)	PCC Surface Characteristics - Part 3	\$0	\$0	Hanson	1
TPF-5(156)	Mississippi Valley Freight Coalition	Paid with Part 1 Funds		O'Riley	Annual
TPF-5(159)	Technology Transfer Concrete Consortium (TTCC)	\$10,000	\$10,000	Merryman/Hanson	Annual
TPF-5(169)	Integral Abutments on Moderately Curved Girder Bridges	\$0	\$0	Abu-Hawash	1
TPF-5(183)	Improving the Foundation Layers for Concrete Pavements	\$35,000	\$35,000	Larson	2
TPF-5(193)	Midwest States Crash Test Program was SPR-3(017)	\$65,000	\$65,000	Maifield	Annual
TPF-5(205)	Mix and Design Analysis	\$0	\$0	Hanson	1
TPF-5(207)	Novice (School Age) Drivers - Million Mile Study	\$0	\$0	Snook	1
TPF-5(209)	Transportation Curriculum Coordination Council (TCCC) was TPF-5(046)	\$25,000	\$25,000	C. Anderson	Annual
TPF-5(215)	Transportation Engineering and Road Research Alliance (TERRA)	\$7,500	\$7,500	M. Dunn	2
TPF-5(218)	Clear Roads was TPF-5(092)	\$25,000	\$25,000	Greenfield	Annual
TPF-5(219)	Structural Health Monitoring	\$50,000	\$50,000	Abu-Hawash	2
TPF-5(224)	Joint Deterioration in Concrete Pavements	\$0	\$0	Hanson	1
TPF-5(231)	Enterprise (IVHS Study) was SPR-3(020)	\$30,000	\$30,000	Stolle	Annual
TPF-5(232)	Impacts of Implements of Husbandry on Bridges	\$0	\$0	M. Dunn	3
TPF-5(233)	Tech Transfer Intelligent Compaction Consortium (TTICC)	\$9,000	\$9,000	M. Dunn	3
TPF-5(237)	Transportation Library Connectivity & Development was TPF - 5(105)	\$5,000	\$5,000	Librarian	Annual
TPF-5(238)	Fracture Critical Concerns in 2 Girder Bridge Systems	\$20,000	\$20,000	Abu-Hawash	2
TPF-5(239)	Acceleration Maintenance Innovation Implementation and Tech Transfer	\$12,000	\$12,000	M. Dunn	2
TPF-5(254)	Bulb-T Beam as Alternate ABC to Side-By-Side Box-Beam	\$15,000	\$15,000	Abu-Hawash	3
TPF-5(260)	Next-Generation Transportation Construction Management	\$25,000	\$25,000	Smythe	2
TPF-5(262)	Evaluation of Sign Guide Fonts	\$15,000	\$15,000	Crouch	2
TPF-5(253)	Member-Level Redundancy in Built-Up Steel Members	\$25,000	\$25,000	Abu-Hawash	3
TPF-5(247)	Field Testing Hand-held Thermo-graphic Inspection Technologies Phase II	\$30,000	\$30,000	Port	2
TPF-5(269) was Sol 1309	Development of an Improved Design Guide for Unbonded Concrete Overlays	\$20,000	\$20,000	C. Brakke	3
TPF-5(271) was Sol 1326	Reorganization of Section 5, Concrete Structures, of the AASHTO LRFD Bridge Design Specifications	\$10,000	\$10,000	N. McDonald	3
TPF-5(272) was Sol 1311	Evaluation of Lateral Pile Resistance Near MSE Walls at a Dedicated Wall Site	\$10,000	\$10,000	R. Stanley	2
TPF-5(275) was Sol 1330	2014 Asset Management Conference and Training on Implementation Strategies	\$10,000	\$10,000	M. Haubrich	5
Solicitation 1329	Next Generation Concrete Pavement Road Map	\$15,000	\$15,000	L. Narigon	1
	General Funds for Future Pooled Fund Projects	\$27,000	\$27,000	Knight	
Pooled Fund Studies Total		\$1,087,500	\$1,087,500	--	--
Technology Transfer - 774					
Project No.	Project Title	Total Funds	Federal Funds	Iowa DOT Contact	No. Years
Reoccurring Items					
RB15-013	Basic Agreement with InTrans	\$270,000	\$216,000	Knight	Annual
RB26-013	*AASHTO - NTPEP (Product Evaluation)	\$7,500	\$7,500	Berger	Annual
RB26-013	*AASHTO - APEL (Approved Product Evaluation List)	\$1,200	\$1,200	Dunn	Annual
RB26-013	*AASHTO - Technology Implementation Group	\$6,000	\$6,000	Larson	Annual

RB26-013	*AASHTO - TSP2	\$20,000	\$20,000	Todey	Annual
RB26-013	*AASHTO - LRFD Specification Maintenance	\$10,000	\$10,000	McDonald	Annual
RB26-013	*AASHTO - Environmental Technical Assistance Program	\$8,000	\$8,000	Rost	Annual
RB26-013	*AASHTO - SICOP	\$4,000	\$4,000	Greenfield	Annual
RB27-013	Remote Sensing Support	\$10,000	\$8,000	Samson	Annual
RB18-013	Geotechnical Support	\$50,000	\$40,000	M. Dunn	Annual
	Conference Plan	\$15,000	\$12,000	L. Narigon	5+
	Research Implementation	\$60,000	\$48,000	L. Narigon	5+
EPOX-011	Bridge Deck Epoxy Injection Process	\$35,000	\$28,000	M. Dunn	5
RB01-007	Pavement Marking Management System	\$25,000	\$20,000	Crouch	1
RB03-012	LRFD Design of Drilled Shafts	\$50,000	\$40,000	Abu-Hawash	1
RB10-012	Maintenance Asset Management (Phase 2)	\$85,000	\$68,000	Haubrich	1
RB28-013	State Research Program-IHRB	\$750,000	\$600,000	M. Dunn	1
New Items this Fiscal Year					
RB29-013	Study of the Regulatory Issues Affecting Truck Freight Movement in the Midwest	\$70,000	\$56,000	Larson	1
RB14-013	Evaluation of PCI Equations	\$75,000	\$60,000	Haubrich	1
RB02-013	Salt Retention Study	\$25,000	\$20,000	Greenfield	1
RB03-013	Traffic Speed for Winter Performance Measures	\$65,000	\$52,000	Greenfield	1
RB04-013	Synthesis of Rural Road Safety Technologies	\$35,000	\$28,000	L. Narigon	1
RB05-013	Evaluating the Relationship between the Driver and Roadway to Address Rural Intersection Safety (SHRP 2)	\$148,000	\$118,400	Larson	1
RB06-013	Iowa Accelerated Bridge Construction Connections - Working Standards and Design Examples	\$50,000	\$40,000	J. Nelson	2
RB07-013	Accelerated Bridge Construction Connection Detail Testing	\$50,000	\$40,000	Abu-Hawash	1
RB08-013	Treatment and Repair of Existing P/S Concrete Beam Ends from Deterioration Due to Chlorides	\$65,000	\$52,000	Port	1
RB09-013	Evaluation of Portable Sonar Monitoring Devices	\$0	\$0	Todsen	1
RB30-013	NHI Course 130095A Fundamental and Structural Analysis for Curved and Skewed Steel Bridges	\$16,000	\$12,800	Nielsen	1
RB31-013	FHWA specialized training support	\$6,000	\$4,800	L. Narigon	1
RB32-013	Pilot Project – Demonstration of Capabilities and Benefits of Bridge Load Rating Through Physical Testing	\$31,000	\$24,800	M. Dunn	1
RB33-013	Bridge Deck Joint Repair Investigation	\$50,000	\$40,000	J. Nelson	2
RB10-013	2013 Peer Exchange	\$20,000	\$16,000	L. Narigon	1
RB11-013	2013 Research Symposium	\$35,000	\$28,000	L. Narigon	1
	General Funds for Future Projects	\$184,517	\$147,614	Knight	
Technology Transfer Total		\$2,332,217	\$1,877,114	--	--
* Items with 100% Federal Share					
Highway Research Support - 775					
Project No.	Project Title	Total Funds	Federal Funds	Iowa DOT Contact	No. Years
Various	State Research Program-Research Support	\$720,000	\$576,000	Knight	1
RB12-013	Disk-Shaped Compact Tension Test	\$40,000	\$32,000	Schram	1
RB13-013	Thermal Integrity Profiler	\$45,000	\$36,000	Abu-Hawash	1
	General Funds for Future Projects	\$20,000	\$16,000	Knight	
Highway Research Support Total		\$825,000	\$660,000	--	--
RD&TT Grand Total					
		\$4,480,622	\$3,834,519	--	--
	FY13 SPR ½ % Apportionment		\$2,145,090	Federal Share	
	75% of NCHRP and TRB (From Part 1 Planning Funds)		\$433,429	Federal Share	
	State Research Program (From Part 1 Planning Funds)		\$1,200,000	Federal Share	
	SUBTOTAL FY13 SPR Funds for Research		\$3,778,519	Federal Share	
	Unobligated Funds from Prior Years*		\$56,000	Federal Share	
	Total Research SPR Funds*		\$3,834,519	Federal Share	

*The unobligated fund estimate is a preliminary determination, we expect to discover and document additional unobligated funds as we continue to evaluate and close out projects.